



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Registration Division (7505P)  
 1200 Pennsylvania Ave., N.W.  
 Washington, D.C. 20460

EPA Reg. Number:

80697-13

Date of Issuance:

09/18/2014

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Tide Acephate 97 SG

Name and Address of Registrant (include ZIP Code):

Zhejiang Tide CropScience Co., Ltd.  
 c/o Ann Tillman  
 Pyxis Regulatory Consulting, Inc.  
 4110 136<sup>th</sup> St. NW  
 Gig Harbor, WA 98332

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Venus Eagle, Product Manager 01  
 Insecticide-Rodenticide, Registration Division (7505P)

Date:

09/18/2014

2. You are required to comply with the DCI identified below:

- Acephate GDCI-103301-917, issued on 11/04/2010

If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: [http://www.epa.gov/oppsrrd1/contacts\\_prd.htm](http://www.epa.gov/oppsrrd1/contacts_prd.htm)

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, "EPA Reg. No. 80697-13."

4. Submit one copy of the final printed label for the record before you release the product for shipment.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 05/01/2014

If you have any questions, please contact Autumn Metzger at (703) 305-5314 or [metzger.autumn@epa.gov](mailto:metzger.autumn@epa.gov).

Venus Eagle, Product Manager 01  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosure

**Tide Acephate 97 SG**  
**Insecticide**

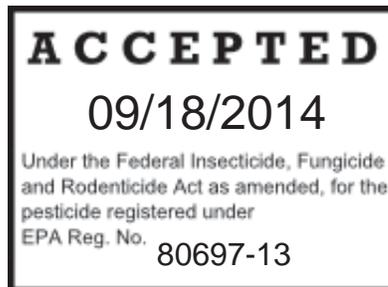
[Note to reviewer: Low dust water soluble extruded granule]

EPA Reg. No. 80697-RG

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SUB LABEL A

**Tide Acephate 97 SG  
Insecticide**



**ACTIVE INGREDIENT:**

Acephate(O,S-Dimethylacetylphosphoramidothioate): ..... 97.0%

**OTHER INGREDIENTS:** ..... 3.0%

**TOTAL:** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

<b>FIRST AID</b>	
Contains an organophosphate that inhibits cholinesterase.	
<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN</b>	
Acephate is a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.	

**EPA Reg. No. 80697-  
EPA Est. No.**

**Manufactured for:**  
Zhejiang Tide CropScience Co., Ltd.  
21 Hubble  
Irvine, CA 92618

**Net Weight: xx lbs.**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed.

**PERSONAL PROTECTIVE EQUIPMENT**

Some materials that are chemical-resistant to this product include butyl rubber, nitrile rubber, or neoprene. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

**Applicators, mixers, loaders and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves for all mixers and loader and for applicators using hand-held application equipment
- Shoes and socks

In addition, all mixers and loaders and all applicators using low pressure hand wand application equipment must wear:

- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC21C or a NIOSH-approved respirator with any N, R P, or HE filter.

See engineering controls for additional requirements.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Requirements:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENGINEERING CONTROLS STATEMENT**

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(6)].

The use of human flaggers is prohibited.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds.

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Eliminations System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers or protected supervisors may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, or greenhouses.

Do not enter or allow others to enter treated areas until sprays have dried.

### RESTRICTIONS FOR ALL USES

- Do not apply with low pressure handwand equipment except for control of fire ants as a mound treatment and when used on ornamental trees, shrubs, and floral plants grown for non-agricultural or non-commercial use.
- Not for indoor residential use.
- This product is **not** for outdoor residential use on lawns, turf, home gardens, ornamentals, flowers, shrubs or trees. This restriction applies to all uses listed on this label.
- For use on turf, use is limited to sod farms and golf courses, except when applying to mound or spot treatment for fire ant and harvester ant control.
- For greenhouse/shadehouse, use is limited to commercial greenhouses/shadehouses for use on ornamental, floral and foliage plants and the tobacco floatbed application as specified in the tobacco use directions.
- Do not apply this product through any type of irrigation system except as specified for use on cranberries.

### SPRAY DRIFT

Observe the following precautions to minimize drift:

A variety of factors including weather conditions (e.g. wind direction, wind speed, temperature, relative humidity), and method of application (e.g. ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product. Do not allow this product to drift.

All aerial, ground and air-assisted/airblast application equipment must be properly maintained and calibrated using water as carrier. Do not apply this product as an ultralow (ULV) spray or in any carrier other than water.

Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

Do not apply at wind speeds greater than 10 mph at the application site.

Make applications when wind velocity favors on-target product deposition (approximately 3 to 10 mph).

Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage.

For aerial applications, do not apply at heights greater than 10 feet (consistent with flight safety).

For airblast applications, direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows.

For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter.

For ground applications, do not apply at heights greater than 4 feet.

## **CROP APPLICATION INSTRUCTIONS**

### **USE INFORMATION**

Tide Acephate 97 SG is an insecticide for control of pests on selected agricultural crops and in certain non-crop areas. The active ingredient in Tide Acephate 97 SG is acephate, a water-soluble insecticide readily absorbed by plant roots and foliage to give systemic control of feeding insects. Insect pests are generally controlled more effectively by Tide Acephate 97 SG through ingestion than by contact. To maintain control repeat application of Tide Acephate 97 SG as directed.

### **FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THE LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, AND/OR ILLEGAL RESIDUES.**

**NOTE:** This product is sold by weight and package is full when packed but, due to the product's nature, settling is likely to occur.

### **MIXING AND COMPATIBILITY**

Fill the spray tank one-third to one-half full of clean water with agitation running and add the required amount of Tide Acephate 97 SG to the spray tank. Add remaining water to bring to the desired volume and maintain agitation during mixing, loading and application. Do not add any liquid fertilizers, micronutrients or adjuvants to the spray solution until the Tide Acephate 97 SG has completely dissolved. Tide Acephate 97 SG should completely dissolve in approximately five minutes. Dissolution may be slowed by cold water, low level of agitation, or water containing high concentrations of boron or sulfur.

### **FIRE ANT CONTROL**

Under prolonged hot and dry conditions, due to the location of ants deep in the nest, best results are obtained from applications made in the early morning or late afternoon when ants are most active.

**TANK MIXES:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of the user, applicator, and/or application advisor. Read and follow the entire label of each product to be used in tank mixes with this product.

### **FOLIAR APPLICATIONS TO BEANS AND LIMA BEANS (Dry and Succulent Forms Except Succulent Green Beans unless Grown only for Seed)**

<b>PESTS CONTROLLED</b>	<b>AMOUNT OF TIDE ACEPHATE 97 SG</b>	<b>APPLICATION INSTRUCTIONS</b>	<b>RESTRICTIONS</b>
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	PER ACRE		
Fleahoppers Grasshoppers	0.25 to 0.5 lb. (4 to 8 oz.)	Apply when eggs or insects first appear.	Do not apply more than 2.1 lbs. product/A (2 lbs. a.i./A) per season. Dry Beans: Allow at least 14 days between final application and harvest. Lima beans (Succulent): Allow at least 1 day to elapse between final application and harvest. Do not feed treated vines to livestock. Use on succulent green beans as a food crop is prohibited (includes string beans, snap beans, and wax beans). Succulent green bean use is permitted ONLY if grown for seed.
Aphids (excluding Black Bean Aphid) Bean Leaf Beetle Bean Leafroller Cabbage Looper Cutworms Green Cloverworm Leafhoppers Mexican Bean Beetle Plant bugs (Lygus) Soybean Looper Thrips Whitefly (Except Sweetpotato & Silverleaf Whitefly)	0.5 to 1 lb. (8 to 16 oz.)	Repeat at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) as necessary to maintain control. Use higher listed rates within the specified range for severe insect infestations. <b>Ground Application:</b> Apply in 20 to 100 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop.	
Armyworms (excluding Beet Armyworm) Corn Earworm European Corn Borer	0.75 to 1 lb. (12 to 16 oz.)	<b>Aerial Application:</b> Make applications of TIDE ACEPHATE 97 SG in a minimum of 2 gallons of water per acre. Use sufficient carrier volume to provide thorough, uniform coverage.	
<b>Restrictions for Succulent Green Beans Grown for Seed:</b>			
<ul style="list-style-type: none"> <li>Do not feed crop residues to livestock or allow animals to graze treated areas.</li> <li>Do not apply to succulent beans grown for fresh market or processing.</li> <li>No portion of the succulent bean plant may be used or distributed for food or feed purposes.</li> <li>Seeds grown from succulent beans shall bear a tag or container label which forbids use of the seed for human consumption or animal feed.</li> <li>Seeds grown from succulent beans may not be distributed for human consumption or animal feed.</li> </ul>			

**FOLIAR APPLICATIONS TO BRUSSELS SPROUTS & CAULIFLOWER**

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Green Peach Aphid	0.5 to 1 lb. (8 to 16 oz.)	Apply when eggs or insects first appear. Repeat applications at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. per product/A (0.5 lb. a.i./A) as necessary to maintain control. Use higher listed rates within the specified range when heavy infestations of aphids are present.	Do not apply more than 2.1 lbs. product/A (2 lbs. a.i./A) per crop cycle. Allow at least 14 days between final application and harvest. Do not feed trimmings to livestock or allow animals to graze in treated areas.
Cabbage Looper Imported Cabbage Worm	1 lb. (16 oz.)		
Diamondback Moth Larvae	1 lb. (16 oz.)	This insect has demonstrated an ability to develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current recommended control practices for this insect.	
<b>Ground Application:</b> Apply in 25 to 150 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop.			
<b>Aerial Application:</b> Make applications of TIDE ACEPHATE 97 SG in a minimum of 5 gallons of water per acre. Use sufficient carrier volume to provide thorough, uniform coverage.			

## FOLIAR APPLICATIONS TO CELERY

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Green Peach Aphid	0.5 to 1 lb. (8 to 16 oz.)	<p>Apply when eggs or insects first appear. Repeat at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. per product/A (0.5 lb. a.i./A) as necessary to maintain control. Use higher listed rates within the specified range for severe insect infestations.</p> <p><b>Ground Application:</b> Apply in 50 to 100 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop.</p> <p><b>Aerial Application:</b> Make applications of TIDE ACEPHATE 97 SG in a minimum of 5 gallons of water per acre. Use sufficient carrier volume to provide thorough, uniform coverage.</p>	<p>Do not apply more than 2.1 lbs. product/A (2 lbs. a.i./A) per season. Allow at least 21 days to elapse between final application and harvest. All celery must be trimmed (tops removed) before shipment for use. Do not use trimmed tops for food or feed.</p>
Cabbage Looper Fall Armyworms	1 lb. (16 oz.)		

## COTTON

### RESTRICTIONS APPLICABLE TO ALL USES ON COTTON:

Do not feed gin trash or forage to livestock.

Do not allow animals to graze on treated areas.

Do not apply more than 4.125 lbs. product/A (4 lbs. a.i./A) per season. This includes the use of TIDE ACEPHATE 97 SG in commercial seed-treatment, in-furrow, and foliar applications.

When applied by air, do not apply more than 1.03 lbs. a.i. product/A (1 lb. a.i./A) in California and Arizona. Do not apply more than 0.77 lb. product/A (0.75 lb. a.i./A) for all other areas of the US when applied by air.

### RESISTANCE MANAGEMENT

Cotton pest control programs, especially those for control of Silverleaf/Sweetpotato Whitefly populations, should employ a properly designed resistance-management strategy. Such resistance-management strategies include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

### IN-FURROW APPLICATION TO COTTON

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS
Aphids (Excluding Cotton Aphids in AZ & CA) Black (Greasy) Cutworm (Except CA) Thrips	0.5 to 1 lb. (8 to 16 oz.)  For the Blacklands of Texas use 1 lb./A TIDE ACEPHATE 97 SG	<p>Apply in water at 3 to 5 gals. carrier per acre as an in-furrow spray. Use flat-fan nozzles for in-furrow application. Align nozzles to ensure good spray deposition into the seed furrow. Cone type nozzles are not recommended since unacceptable spray deposition may occur. Securely fasten spray-system tubing to furrow opener and check frequently to ensure proper positioning and operation. Use higher listed rates within the specified range for severe insect infestations.</p> <p>TIDE ACEPHATE 97 SG can be mixed with fungicides that are sprayed in-furrow for disease control.</p>

## FOLIAR APPLICATIONS TO COTTON

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Thrips	0.16 to 0.19 lb. (2.5 oz. to 3.0 oz.)	Apply when eggs or insects first appear. Repeat applications at a minimum of 3 day intervals as necessary to maintain control*. Use higher listed rates within the specified range for severe insect infestations.	Allow at least 21 days to elapse between final application and harvest.
Plant bugs (Lygus)	0.25 to 1 lb. (4 to 16 oz.)  AZ & CA: 0.75 to 1 lb. (12 to 16 oz.)	Apply when eggs or insects first appear. Use highest rate for Lygus adults that have migrated into cotton. Repeat applications at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) as necessary to maintain control.* Use higher listed rates within the specified range for severe insect infestations.	*See restrictions applicable to all uses on cotton
Fleahoppers	0.25 lb. (4 oz.)	Apply when eggs or insects first appear. Repeat applications at a minimum of 3 day intervals as necessary to maintain control*	
Cotton Aphid (excluding AZ & CA)	0.5 to 1 lb. (8 to 16 oz.)	This insect may develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current control recommendations. Repeat applications at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) as necessary to maintain control.* Use higher listed rates within the specified range for severe insect infestations.	Allow at least 21 days to elapse between final application and harvest.  *See restrictions applicable to all uses on cotton.
Whitefly (excluding Sweetpotato & Silverleaf Whitefly)	0.5 to 1 lb. (8 to 16 oz.)	Repeat applications at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) as necessary to maintain control.* Use higher listed rates within the specified range for severe insect infestations.	
Armyworms (excluding Beet Armyworm) Cabbage Looper	1 lb. (16 oz.)	Apply when eggs appear and repeat at a minimum of 7 day spray intervals*.	
Bollworm Tobacco Budworm Adults Larvae Eggs (DEADHATCH®)	East of Rockies: 0.5 to 1 lb. (8 to 16 oz.)  AZ & CA: 1 lb. (16 oz.)	<b>Early Season:</b> Use 0.5 lb. product/A for light infestation. <b>Mid and Late Season:</b> Use 0.75 to 1 lb. product/A for moderate to severe infestations. Apply when eggs appear and repeat at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A).* Use highest rates within specified range for severe insect infestations. Moths of budworm larvae are controlled by direct contact with spray. Moth kill is most likely to occur when late evening applications are made. DEADHATCH®: Control of emerging larvae by consumption of treated egg casings.	
Stink bugs	0.75 lb. (12 oz.)	Apply when eggs appear and repeat at a minimum of 7 day spray intervals*.	

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Pink Bollworm (AZ & CA)	1 lb. (16 oz.)	Apply when insects appear and repeat at a minimum of 7 day spray intervals*.	
Cutworms	0.75 lb. (12 oz.)	Ground application is recommended. Aerial applications are less effective, but may be used. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. Apply when insects first appear or damage is first noted and repeat applications at a minimum of 7 day spray intervals as necessary to maintain control*.	
<p><b>Ground Application:</b> Apply in 10 to 25 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop.</p> <p><b>Aerial Application:</b> Make applications of TIDE ACEPHATE 97 SG in 3 to 10 gallons of water per acre (minimum of 5 gallons per acre in AZ &amp; CA). Use sufficient carrier volume to provide thorough, uniform coverage. Do not apply TIDE ACEPHATE 97 SG at more than 1.03 lbs. product/A (1 lb. a.i./A) in California and Arizona and not more than 0.77 lb. product/A (0.75 lb. a.i./A) for all other areas of the United States). Use sufficient carrier volume to provide thorough, uniform coverage.</p>			

### COTTON TANK MIXES FOR FOLIAR APPLICATION

#### RESTRICTIONS APPLICABLE TO ALL USES ON COTTON:

Do not feed gin trash or forage to livestock.

Do not allow animals to graze on treated areas.

Do not apply more than 4.125 lbs. product/A (4 lbs. a.i./A) per season. This includes the use of TIDE ACEPHATE 97 SG in commercial seed-treatment, in-furrow, and foliar applications.

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Follow all restrictions and precautions, which appear on all product labels. The most restrictive labeling applies when using a tank mix.

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG + TANK MIX PARTNER PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Sweetpotato & Silverleaf Whitefly	0.5 lb. (8 oz.) + DANITOL® 2.4 EC 8 to 16 fl. oz.	Apply when insects first appear or when damage is first noted and repeat applications at a minimum of 3 day spray intervals as necessary to maintain control* Use a minimum application rate of 10.66 fl. oz./acre DANITOL® (0.2 lb. a.i./acre) in CA and AZ. Always read and follow all applicable directions, restrictions, and precautions on the EPA registered label for DANITOL® 2.4 EC Spray.	Allow at least 21 days to elapse between final application and harvest.  *See restrictions applicable to all uses on cotton.
Armyworms (excluding Beet Armyworm) Bollworm Cabbage Looper Cotton Aphid Fleahoppers Grasshoppers Pink Bollworm Plant bugs (Lygus, Mirids) Salt Marsh Caterpillar Thrips	0.25 to 1 lb. (4 to 16 oz.) + LORSBAN® 4E 1 to 2 pts.	Always read and follow all applicable directions, restrictions, and precautions on the EPA registered label for LORSBAN® 4E. Apply when insects first appear or when damage is first noted and repeat applications at a minimum of 3 day spray intervals for rates up to 0.52 lb. TIDE ACEPHATE 97 SG/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rater greater than 0.52 lb. TIDE ACEPHATE 97 SG/A (0.5 lb. a.i./A) as necessary to maintain control*. Use higher listed rates within the specified range for severe insect infestations.	

Tobacco Budworm Whitefly (Excluding Sweetpotato & Silverleaf Whitefly)			
Cutworms	0.75 lb. (12 oz.) + LORSBAN® 4E 1 to 2 pts.	Apply when insects first appear or when damage is first noted and repeat applications at a minimum of 7 day spray intervals as necessary to maintain control*. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. Directed, ground application is most effective. Aerial applications are less effective, but may be used.	
<p><b>Ground Application:</b> Apply in 10 to 25 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop.</p> <p><b>Aerial Application:</b> Make applications of TIDE ACEPHATE 97 SG in 3 to 10 gallons of water per acre (minimum of 5 gallons per acre in AZ &amp; CA). Use sufficient carrier volume to provide thorough, uniform coverage. Do not apply TIDE ACEPHATE 97 SG at more than 1.03 lbs. product/A (1 lb. a.i./A) in California and Arizona and not more than 0.77 lb. product/A (0.75 lb. a.i./A) for all other areas of the United States. Use sufficient carrier volume to provide thorough, uniform coverage.</p>			

### COTTON TANK MIXES WITH PYRETHROIDS FOR FOLIAR APPLICATIONS

#### RESTRICTIONS APPLICABLE TO ALL USES OF COTTON:

Do not feed gin trash or forage to livestock.

Do not allow animals to graze on treated areas.

Do not apply more than 4.125 lbs. product/A (4 lbs. a.i./A) per season. This includes the use of TIDE ACEPHATE 97 SG in commercial seed-treatment, in-furrow, and foliar applications.

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Follow all restrictions and precautions, which appear on all product labels. The most restrictive labeling applies when using a tank mix. Use synthetic Pyrethroids within the guidelines of state and/or regional resistance management programs and recommendations.

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG + TANK MIX PARTNER	APPLICATION INSTRUCTIONS	RESTRICTIONS
Aphids Bollworm Cabbage Looper Cotton Leaf Perforator Fall Armyworm Fleahoppers Pink Bollworm (AZ & CA) Plant bugs Sweetpotato & Silverleaf Whitefly Thrips Tobacco Budworm Whiteflies	0.5 to 1 lb./A (8 to 16 oz.) + AMMO® 2.5 EC (Follow label directions) Or ASANA® XL (Follow label directions) Or BAYTHROID® 2 EC (Follow label directions) or CAPTURE® 2 EC (Follow label directions) Or KARATE® 1E (Follow label directions) Or SCOUT® X-TRA (Follow label directions)	Begin applications when eggs or insects first appear. Repeat application at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) as necessary to maintain control*. Use higher listed rates within the specified range for severe insect infestations.	Allow at least 21 days to elapse between final application and harvest.  *See restrictions applicable to all uses on cotton.
Cutworms	0.75 lb./A (12 oz.) + Any Synthetic Pyrethroid listed above	Control is most effective when ground applications are made in the evenings and sprays are directed toward the base and lower portion of plant.	

		Repeat applications at a minimum of 7 day spray intervals as necessary to maintain control.* Directed, ground applications are most effective. Aerial applications are less effective, but may be used.
Stink bugs	0.75 lb./A (12 oz.) + Any Synthetic Pyrethroid listed above	Apply when eggs or insects first appear. Repeat application at a minimum of 7 day spray intervals necessary to maintain control.*
<p><b>Ground Application:</b> Apply in 10 to 25 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop.</p> <p><b>Aerial Application:</b> Make applications of TIDE ACEPHATE 97 SG in 3 to 10 gallons of water per acre (minimum of 5 gallons per acre in AZ &amp; CA). Use sufficient carrier volume to provide thorough, uniform coverage. Do not apply TIDE ACEPHATE 97 SG at more than 1.03 lbs. product/A (1 lb. a.i./A) in California and Arizona and not more than 0.77 lb. product/A (0.75 lb. a.i./A) for all other areas of the United States. Use sufficient carrier volume to provide thorough, uniform coverage.</p>		

## CRANBERRY

PESTS CONTROLLED	AMOUNT OF ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Cranberry Blossomworm Cranberry Cutworm Gypsy Moth False Armyworm Fireworms Spanworms Sparganothis	1 lb. (16 oz.)	Apply when insects first appear.	Limit to one application per growing season. Do not apply more than 1.03 lb. product/A (1.0 lb. a.i./A) per season. The Pre-Harvest Interval (PHI) is 75 days in the state of MA, NJ, OR, WA, WI, and 90 days in all other states. Do not apply from start of bloom until all berries set.
<p><b>Ground Application:</b> Apply with conventional ground equipment in sufficient water to ensure thorough coverage of the target crop.</p> <p><b>Aerial Applications:</b> Make aerial applications in a minimum of 2 gallons of water per acre. Use sufficient carrier volume to provide thorough, uniform coverage.</p> <p><b>Chemigation Application:</b> This product may only be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system. Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application. Inject the product with a positive displacement pump into the main line ahead of a right turn to ensure adequate mixing. Application of more than label specified quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water.</p> <p><b>CHEMIGATION APPLICATIONS:</b>  <b>Do not connect an irrigation system (including greenhouse/shadehouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water systems are in place.</b></p> <ul style="list-style-type: none"> <li>• A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.</li> <li>• The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.</li> <li>• The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.</li> <li>• The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.</li> <li>• The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.</li> <li>• The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.</li> <li>• Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.</li> </ul>			

- Do not apply when wind speed favors drift beyond the area intended for treatment.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- **Solid Set System:** Apply specified dosage for the entire length of the irrigation period or for a 30 to 60 minute period at the end of a regular irrigation set or as a 30 to 60 minute injection as a separate application not associated with a regular irrigation. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining pesticide, a dye indicator may be injected into the lines to mark the end of the application period. See information below.
- **Center Pivot System:** Inject the specified dosage per acre continuously for one complete revolution of the system. See information below.

Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application. Inject the product with a positive displacement pump into the main line ahead of a right turn to ensure adequate mixing.

**Application of more than label-specified quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone effectiveness.**

### FOLIAR APPLICATIONS TO HEAD LETTUCE (Crisphead Type Only)

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Aster Leafhopper Green Peach Aphid	0.5 to 1 lb. (8 to 16 oz.)	Repeat application at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) as necessary to maintain control.  Use higher listed rates within the specified range for severe insect infestations.	Do not apply more than 2.1 lbs./A (2 lbs a.i.) per season. Allow at least 21 days to elapse between final application and harvest. Do not feed trimmings to livestock or allow animals to graze on treated areas. For use on Spring, Summer, and early Fall crops in all areas; Winter crops in Florida and Texas; late Fall crops in Arizona; and Winter crops in Arizona and California. Do not apply after first head begins to form in crops which germinate from mid-September through November in desert areas of AZ & CA.
Armyworm (excluding Beet Armyworm) Cabbage Looper	1 lb. (16 oz.)		
<b>Ground Application:</b> Apply in 10 to 60 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop.			
<b>Aerial Application:</b> Make aerial applications in minimum of 5 gallons of water per acre. Use sufficient carrier volume to provide thorough, uniform coverage.			

### NON-BEARING CITRUS (Newly Planted Groves) – Agricultural Settings ONLY FOLIAR APPLICATIONS

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Aphids Grasshoppers Katydid Mealybugs Orangedog Plant bugs Thrips Whiteflies (except Sweetpotato & Silverleaf Whitefly)	0.5 lb. (8 oz.)	Apply at a minimum of 3 day spray intervals as necessary to maintain control. Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in lbs. per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.	Do not graze treated areas. Do not harvest citrus for one year after treatment. *Not registered in California for control of Citrus Blackfly.
Citrus Blackfly*	0.5 to 0.75 lb. (8 to 12 oz.)	Apply when eggs or insects first appear. Use higher listed rates within the specified range for severe insect infestations.	

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
		Repeat at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A).	
Ants (excluding fire, harvester, carpenter and fire ants)	0.75 lb. (12 oz.)	Repeat at a minimum of 7 day spray intervals as necessary to maintain control.	
<b>Ground Application:</b> Apply in 100 to 200 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop.			

**NON-BEARING CITRUS  
SOIL MOUND DRENCHES**

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Fire Ants & Harvester Ants*	0.75 oz./ 5 gals. water	Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound  For best results, apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged dry and hot conditions may be ineffective due to the location of the ants deep within the nest.	Do not graze treated areas. Do not harvest citrus for one year after treatment. Do not treat mound more than once per season. *Not registered in California for control of Harvester Ants.

**WASTELAND**

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Black Grass Bugs Grasshoppers Mormon Crickets	0.094 to 0.125 lb. (1.5 oz. to 2 oz.)	Use the higher listed volumes when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays. Use higher listed rates within the specified range for severe insect infestations.	Do not make more than one application per season. Do not graze or feed vegetation cut from treated areas.
<b>Ground Application:</b> Apply in 10 to 20 gallons of water per acre by conventional ground equipment to ensure thorough coverage.			
<b>Aerial Application:</b> Make aerial applications in minimum of ½ gallon of water per acre (minimum 5 gallons/acre in CA). Use sufficient carrier volume to provide thorough, uniform coverage.			

**PEANUTS**

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Grasshoppers	0.25 to 0.5 lb. (4 to 8 oz.)	<p>Apply when eggs or insects first appear. Repeat application at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) as necessary to maintain control.</p> <p>Use higher listed rates within the specified range for severe insect infestations.</p> <p>TIDE ACEPHATE 97 SG can be tank mixed with registered at-cracking and early post-emergence peanut herbicides, provided those products do not prohibit tank mixes, provided the most restrictive of label limitations and precautions are followed, and provided no label dosage rates are exceeded.</p> <p>To determine physical compatibility, pour the specified proportions of each chemical with the same proportion of water as will be present in the chemical supply tank, into a suitable container. Mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is considered physically compatible. When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides. Do not use the mix combination if there is any separation which cannot be readily remixed.</p> <p>Combinations should be kept agitated and applied immediately. Do not allow combinations to set for prolonged periods in the chemical supply tank or irrigation lines.</p>	<p>Do not apply more than 4.125 lbs. product/A (4 lbs. a.i./A) per season.</p> <p>Allow at least 14 days to elapse between final application and digging or lifting of peanuts.</p> <p>Do not feed treated forage or hay to livestock.</p> <p>Do not allow animals to graze on treated areas.</p>
Thrips	0.375 to 0.75 lbs. (6 to 12 oz.)		
Corn Earworm Fall Armyworm Leafhoppers Loopers Velvetbean Caterpillar	0.75 to 1 lb. (12 to 16 oz.)		
<p><b>Ground Application:</b> Apply in 10 to 50 gallons of water per acre by conventional ground equipment to ensure thorough coverage.</p> <p><b>Aerial Application:</b> Make aerial applications in 5 to 10 gallons of water per acre. Use sufficient carrier volume to provide thorough, uniform coverage.</p>			

#### PEPPERMINT AND SPEARMINT

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Alfalfa Looper Aphids Cutworms	1 lb. (16 oz.)	Apply when eggs or insects first appear. Make one repeat application at no less than 7 day spray interval, if necessary, to maintain control	Do not apply more than 2.1 lbs. product/A (2 lbs. a.i./A) per season.
Strawberry Root Weevil, Adult Black Vine Weevil, Adult	1 lb. (16 oz.)	For control, apply in water in a minimum of 40 gals. spray per acre by ground. Good spray coverage and canopy spray penetration is critical for control. Increase spray volume and pressure with tall or dense mint canopy. Apply after adult emergence is complete but prior to egg laying. Apply at dusk during the night on a warm still evening. Two applications 10 to 14 days apart may be necessary to reduce heavy infestations.	Allow at least 14 days to elapse between final application and harvest. The grazing of animals on treated areas and the feeding of spent mint hay to animals are prohibited.
<p><b>Ground Application:</b> Apply in 20 to 100 gallons of water per acre by conventional ground equipment to ensure thorough coverage of the target crop.</p>			

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
<b>Aerial Application:</b> Make aerial applications in minimum of 5 to 10 gallons of water per acre. Use sufficient carrier volume to provide thorough, uniform coverage.			

### BELL PEPPERS

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Grasshoppers	0.25 to 0.5 lb. (4 to 8 oz.)	Apply when eggs or insects first appear. Repeat at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) as necessary to maintain insect-pest populations below economically damaging numbers. Use higher listed rates within the specified range for severe insect infestations.	Do not apply more than 2.1 lbs. product/A (2 lbs. a.i./A) per season. Allow at least 7 days to elapse between final application and harvest.
Cabbage Looper Green Peach Aphid Tobacco Hornworm	0.5 to 1 lb. (8 to 16 oz.)		
European Corn Borer	0.75 to 1 lb. (12 to 16 oz.)		
<b>Ground Application:</b> Apply in 25 to 150 gallons of water per acre by conventional ground equipment to ensure thorough coverage.			
<b>Aerial Application:</b> Make aerial applications in minimum of 3 gallons of water per acre (minimum of 5 gal/A in CA). Use sufficient carrier volume to provide thorough, uniform coverage.			

### NON-BELL PEPPERS (For use only in Midwestern states, Eastern states, and Puerto Rico)

Not for use in Washington, Oregon, Idaho, Montana, Wyoming, California, Nevada, Arizona, New Mexico, Colorado, or Utah

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Aphids	0.5 lb. (8 oz.)	Repeat at a minimum of 3 day spray intervals as necessary.	Do not apply more than 1.03 lbs. product/A (1.0 lbs. a.i./A) per season. Allow at least 7 days to elapse between final application and harvest.
<b>Ground Application:</b> Apply in 40 to 150 gallons of water per acre by conventional ground equipment to ensure thorough coverage.			

### SOYBEANS

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Grasshopper, Thrips	0.25 to 0.5 lb. (4 to 8 oz.)	Apply when eggs or insects first appear. Repeat applications as necessary to maintain insect-pest populations below economically damaging numbers. Repeat application at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) as necessary to maintain control. Use higher listed rates within the specified range for severe insect infestations.	Do not apply more than 1.55 lbs. product/A (1.5 lbs. a.i./A) per crop cycle. Allow at least 14 days to elapse between final application and harvest. Do not graze or cut vines for hay or forage.
Potato Leafhopper, Stinkbugs	0.5 to 1 lb. (8 to 16 oz.)		
Armyworms (except Beet) Bean Leaf Beetle Cabbage Looper Green Cloverworm	0.75 to 1 lb. (12 to 16 oz.)		

Mexican Bean Beetle Soybean Aphid Threecornered Alfalfa Hopper Velvetbean Caterpillar		<p><b>Ground Application:</b> Apply in 10 to 50 gallons per acre by conventional ground equipment to ensure thorough coverage.</p> <p><b>Aerial Application:</b> Make aerial applications in 5 to 10 gallons per acre (minimum of 5 gal/A in CA). Use sufficient carrier volume to provide thorough, uniform coverage.</p>	
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## TOBACCO

### TOBACCO TRANSPLANT WATER APPLICATION (EXCEPT CA)

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Cutworms Flea Beetle Green Peach Aphid Potato Tuberworm Tobacco Aphid Tobacco Thrips	0.75 lb. (12 oz.)	<p>Provides control of early season flea beetles, green peach aphids, and cutworms for approximately 3 to 4 weeks after transplanting. For later season control of these insects, apply a foliar spray of TIDE ACEPHATE 97 SG.</p> <p>Apply in a minimum of 100 gals. of transplant water per acre.</p> <p>TIDE ACEPHATE 97 SG should be pre-mixed in water to form a slurry solution prior to adding to the transplant water tank. Phytotoxicity may occur from transplant water applications at more than 0.75 lb per acre.</p>	<p>Do not apply more than 4.125 lbs. product/A (4.0 lbs. a.i./A) per season. This includes the use of TIDE ACEPHATE 97 SG in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications.</p> <p>Make transplant-water applications using mechanical transplant equipment only. Using such equipment, the insecticide/water mixture is mechanically applied directly into the soil along with the transplanted plants.</p> <p>Do not apply more than 0.75 lb. TIDE ACEPHATE 97 SG per acre.</p>

### TOBACCO FOLIAR APPLICATION (EXCEPT CA)

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Grasshoppers	0.25 to 0.5 lb. (4 to 8 oz.)	<p>Apply at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) as needed.</p> <p>Use higher listed rates within the specified range for severe insect infestations.</p>	<p>Do not apply more than 4.125 lbs. product/A (4.0 lbs. a.i./A) per season. This includes the use of TIDE ACEPHATE 97 SG in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications.</p> <p>Allow at least 3 days to elapse between final application and harvest.</p>
Green Peach Aphid Flea Beetle Hornworm Tobacco Thrips	0.5 lb. (8 oz.)		
Stink bugs Tobacco Aphid Vegetable Weevils	0.5 to 0.75 lb. (8 to 12 oz.)		
Budworm Cabbage Looper Cutworm Japanese Beetle	0.75 lb. (12 oz.)		
<p><b>Ground Application:</b> Apply in 10 to 50 gallons of water per acre by conventional ground equipment to ensure thorough coverage.</p> <p><b>Aerial Application:</b> Make aerial applications in minimum of 3 gallons of water per acre. Use sufficient carrier volume to provide thorough, uniform coverage.</p>			

**TOBACCO PLANT BED APPLICATION (EXCEPT CA)**

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	0.75 lb. (12 oz.)	Apply to foliage at the equivalent of 3/4 tablespoon in 1 gal. of water per every 1,000 sq. ft. of bed. Apply evenly to ensure thorough coverage. Apply at a minimum of 7 day intervals as needed.	Do not apply more than 4.125 lbs. product/A (4.0 lbs. a.i./A) per season. This includes the use of TIDE ACEPHATE 97 SG in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications.

**TOBACCO GREENHOUSE (FLOATBED) APPLICATION (EXCEPT CA)**

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION INSTRUCTIONS	RESTRICTIONS
Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	0.75 lb. (12 oz.)	Apply to foliage at the equivalent of 3/4 tablespoon in 3 gals. of water per every 1,000 sq. ft. of bed. Apply evenly to ensure thorough coverage. Apply at a minimum of 7 day intervals as needed.	Do not apply more than 4.125 lbs. product/A (4.0 lbs. a.i./A) per season. This includes the use of TIDE ACEPHATE 97 SG in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications. Dispose of floatbed water in the transplanted field by either transplant water or foliar spray.

**TOBACCO SOIL MOUND DRENCH APPLICATION (EXCEPT CA)**

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG	APPLICATION INSTRUCTIONS	RESTRICTIONS
Fire Ant & Harvester Ant	Mix 0.75 oz. in 5 gals. of water.  Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	When insects first appear. For best results, apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged dry and hot conditions may be ineffective due to the location of the ants deep within the nest.	Do not apply more than 4.125 lbs. product/A (4.0 lbs. a.i./A) per season. This includes the use of TIDE ACEPHATE 97 SG in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications. Allow at least 3 days to elapse between final application and harvest. Treat maximum of 13 mounds per acre. Do not treat more than once per season.

**SPECIALTY USES**

**CROP TOLERANCE**

TIDE ACEPHATE 97 SG is generally not phytotoxic to most greenhouse/shadehouse or field grown plants or turf. However, it is impossible to test all plant varieties and cultural conditions. Before treating large plantings, apply to a representative group of plants and observe for two weeks to assure that a particular variety, grown under current conditions is not sensitive to TIDE ACEPHATE 97 SG. Use on turfgrass is limited to sod farms and golf courses, except when applying by mound or spot treatment for fire ant and harvester ant control.

The following have been found to be sensitive to TIDE ACEPHATE 97 SG:

**Trees:** Balm of Gilead, Cottonwood, Lombardy Poplar or Viburnum suspensum and Crabapple varieties, Ichonoski, Malus fioribunda, Pink Perfection, Red Wine and Snow Cloud.

**Plants:** Bletchum gibbum, Cissus antarctica, Ficus triangularis, Fittonia verschaffeltii, Maranta leuconeura kerchoviana, Pachystachys lutea, Plectranthus australis, Polypodium aureus, Polystichum, Pteris ensiformis, Tolmiea menziesii.

**Chrysanthemum Varieties:** Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho and Wild Honey. Applications to Chrysanthemums and Roses with open flowers may result in flower damage.

## SPECIALTY USES

### SMALL SPRAY EQUIPMENT

PREPARATION OF TIDE ACEPHATE 97 SG SPRAY MIX		
LABEL DIRECTIONS PER ACRE IN 100 GALLONS OF WATER	EQUIVALENT PER ACRE IN 25 GALLONS WATER	EQUIVALENT PER ACRE IN 1 GALLON WATER (TEASPOONS/GAL)
0.25 LB.	1 OZ.	1/3 tsp.
0.50 LB.	2 OZ.	2/3 tsp.
0.75 LB.	3 OZ.	1 tsp.
1.00 LB.	4 OZ.	1 1/3 tsp.

### NON-BEARING CITRUS – Not for residential use

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
Non-bearing citrus (including citrus nursery seedlings)	Aphids Grasshoppers Katydid Mealy bugs Orangedogs Plant bugs (Lygus) Thrips Whiteflies	0.5 lb. (8 oz.)	Apply at a minimum of 3 day spray intervals as needed for control of existing populations.	Apply in 100 to 200 gals. of water per acre. Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in lbs per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.	Do not allow livestock to graze treated areas.  Do not harvest citrus for one year after treatment.
	Citrus Blackfly	0.5 to 0.75 lb. (8 to 12 oz.)	Begin applications when eggs or adults first appear. Apply at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) to maintain control. Use the higher listed rate when a heavy infestation of Citrus Blackfly is present. Begin applications when eggs or adults first appear.		
Non-bearing citrus	Ants (excluding	Foliar Spray 0.75 lb.	Apply at a minimum of 7 day spray intervals as		

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
(including citrus nursery seedlings)	fire, harvester, carpenter and pharaoh ants)	(12 oz.)	needed for control of existing populations.		
	Fire Ants and Harvester Ants	Mound Treatment – Drench Method	Mix 0.75 oz. product in 5 gals. of water. Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound. Applications made under prolonged dry and hot conditions may be ineffective due to the location of the ants deep within the nest.		

**NURSERY STOCK: NON-BEARING DECIDUOUS FRUIT TREES, NUT TREES AND VINES IN NURSERY FIELD OR NON-BEARING ORCHARDS**

**Restrictions:** Do not apply with low pressure handwand equipment except when used on ornamental trees grown for non-agricultural or non-commercial use.

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION TIMING	RESTRICTIONS
Nursery Stock (non-bearing Deciduous Fruit Trees, Nut Trees, Vines) Almond Apricot Apple Cherry Grape Kiwi Pear Pistachio Plum Prune Walnut	Aphids Plant bugs (Lygus) Thrips	0.5 to 1 lb. (8 to 16 oz.)	Apply at a minimum of 3 day spray intervals for rates up to 0.52 lb. product/A (0.5 lb. a.i./A) and at a minimum of 7 day spray intervals for rates greater than 0.52 lb. product/A (0.5 lb. a.i./A) as needed for control of existing populations. Use higher listed rates within the specified range for severe insect infestations.	For application only to non-bearing trees and vines in nursery fields or in non-bearing orchards. Do not apply interplants or single trees in a bearing orchard. Do not harvest any fruit from sprayed trees for one year after application. Do not allow livestock to graze treated area. Do not exceed 1 lb. product/A.
<p><b>Ground Application:</b> Apply in 50 to 100 gallons of water per acre in conventional equipment to ensure thorough coverage of the target plants.</p> <p><b>Aerial Application:</b> Apply in a minimum of 5 gallons of water per acre. Use sufficient carrier volume to provide thorough coverage.</p>				

**CONTAINER GROWN NURSERY STOCK**

**Restrictions:** Do not apply with low pressure handwand equipment except when used on ornamental trees, shrubs, and floral plants grown for non-agricultural or non-commercial use.

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER ACRE	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
Container Grown Nursery Stock (Arborvitae Azalea Camellia Rhododendron Roses Viburnum Yew)	Black Vine Weevil Strawberry Root Weevil	0.75 lb. (12 oz.)	Application should be made by mid-September for greenhouse/shadehouse stock and by mid-October for outdoor stock. Consult your local county extension agent for information on the identification and control of root weevils on ornamentals.	Apply the specified amount of TIDE ACEPHATE 97 SG spray per 100 gallons of solution so as to thoroughly drench the root system.  Apply at a minimum of 7-day spray intervals to maintain control.	Do not apply more than 0.75 lb. product/A.
	Ants, (excluding fire, harvester, carpenter and pharaoh ants)	0.75 lb. (12 oz.)	Apply as needed to control the pest.		

#### ORNAMENTAL TREES AND SHRUBS

**Restrictions:** This product is **not** for outdoor residential use on lawns, turf, home gardens, ornamentals, flowers, shrubs or trees. Do not apply with low pressure handwand equipment except when used on ornamental trees and shrubs grown for non-agricultural or non-commercial use.

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER 100 GALS.	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
Trees & Shrubs (except Douglas Fir, Flowering Crabapple, and Crape Myrtle) - see below	Aphids Bagworms Birch Leafminer Lace Bugs Leafrollers Tent Caterpillar*	0.25 lb. (4 oz.)	As the insects begin to appear.	Apply the specified amount of TIDE ACEPHATE 97 SG in 100 gallons of water with a hydraulic sprayer as a full coverage spray.	Do not apply more often than 3 times in a growing season to trees and shrubs.
	Douglas Fir Tussock Moth Larvae Gypsy Moth Larvae* Webworms	0.5 lb. (8 oz.)	As the insects begin to appear.	*Mist Blower Application: Adjust rates to 1 lb. product per 100 gallons of water for Gypsy Moth control and 0.75 lb. product per 100 gallons of water for Tent Caterpillar control.	Do not apply more than 1.0 lb. product/A/100 gallons of water.
	Scales (crawlers)	0.5 lb. (8 oz.)	As crawlers begin to appear. Repeat applications at a minimum of 2-week or more interval may be necessary where there is continuous crawler production.	The addition of a suitable sticker improves control of Gypsy Moth larvae.  Repeat at a minimum of 14-day spray intervals as necessary to maintain control.	
	Ponderosa Pine Needle Miner	0.5 lb. (8 oz.)	Time of application is important.		

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER 100 GALS.	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
			Consult your Farm Advisor or County Extension Agent.	Refer to Crop Tolerance statement.	
	Grasshoppers	0.5 lb. (8 oz.)	As the grasshoppers begin to appear.		
	California Oakworm Cankerworms (Spring & Fall)	0.25 to 0.5 lb. (4 to 8 oz.)	As the insects begin to appear. Use the higher amount when larger larvae are present.		
Trees & Shrubs (except Douglas Fir, Flowering Crabapple, and Crape Myrtle) - see below	Nantucket Pine Tip Moth Larvae	0.75 lb. (12 oz.)	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent generations.	Apply the specified amount of TIDE ACEPHATE 97 SG in 100 gallons of water with a hydraulic sprayer as a full coverage spray.  Repeat at a minimum of 14-day spray intervals as necessary to maintain control. Refer to Crop Tolerance Statement.	Do not apply more often than 3 times in a growing season to trees and shrubs.  Do not apply more than 1.0 lb. product/A/100 gallons of water.
	Root Weevil Adults	0.75 lb. (12 oz.)	Apply when first feeding damage occurs. Repeat applications at four week intervals until the first heavy frost may be necessary for complete foliage protection.		
	Box Elder Bugs Budworms Leafhoppers Sawflies	0.75 lb. (12 oz.)	As the insects begin to appear.		
	Japanese Beetle	1 lb. (16 oz.)	As the Japanese Beetles begin to appear. Repeat applications at a minimum of 2 week intervals may be necessary.		
	Elm Leaf Beetle (larvae)	1 lb. (16 oz.)	As the larvae begin to appear. TIDE ACEPHATE 97 SG will not prevent Elm Leaf Beetle eggs from hatching.		
Douglas Fir (Christmas Trees)	Douglas Fir Needle Midge	0.5 lb. (8 oz.)  (0.5 lb. per acre)	Make applications no more than 2 weeks prior to bud burst.  For additional pest management information, consult your County Extension Agent.	Apply the specified amount of TIDE ACEPHATE 97 SG in not less than 2 gallons of spray per acre by air or in 100 gallons of spray per acre by ground.	Do not apply more than 0.5 lb. product/A/100 gallons of water. Do not treat more than once per season.

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER 100 GALS.	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
Flowering Crabapple	Aphids Leafrollers Tent Caterpillars	0.25 lb. (4 oz.)	As the insects begin to appear.	Apply the specified amount of TIDE ACEPHATE 97 SG in 100 gallons of water with a hydraulic sprayer.  Phytotoxicity has occurred on the following Crabapple varieties: Hops, Ichonoski, Malus floribunda, Pink Perfection, Red Wine and Snow Cloud.	Do not apply more often than 3 times in a growing season at 28-day intervals. Do not apply more than 0.25 lb. product/A/100 gallons of water.
Crape Myrtle	Aphids	2 to 3 level Tsp. (0.6 to 0.8 oz.) per Tbsp. Water as paint on	As aphids begin to appear.	Make a paint-on-slurry by mixing the specified amount of TIDE ACEPHATE 97 SG with 1 tablespoon of water. Remove the loose bark from the trunk areas to be treated. Completely paint a band around each trunk to a width twice its diameter. Make applications to trunks within a zone 6 to 12 inches above the ground and below the point where branching begins. For multi-trunk plants, be certain to treat all trunks. For either single or multi-trunk plants, make application as low as possible within the specified treatment zone.	

#### OUTDOOR FLORAL CROPS AND GROUND COVERS

**Restrictions:** This product is **not** for outdoor residential use on lawns, turf, home gardens, groundcovers, ornamentals, flowers, shrubs or trees. Do not apply with low pressure handwand equipment except when used on floral plants grown for non-agricultural or non-commercial use.

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER 100 GALS.	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
Chrysanthemums Daisies Dahlias Lilies: Including Easter Lily Calla Lily Gladioli Gypsophila	Aphids Lygus Thrips	0.5 lb. (8 oz.)	As the insects begin to appear. Repeat application may be necessary.	Apply the specified amount of TIDE ACEPHATE 97 SG in 100 gallons of water with a hydraulic sprayer as a full coverage spray. Repeat at a minimum of 14-day spray intervals as	Do not apply more than 1.0 lb. product/A/100 gallons of water. Do not apply more than 0.77 lb. product/A (0.75 lb. a.i./A) to cut flowers.

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER 100 GALS.	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
Pachysandra Peony Roses Sedum Statice Strawflower Yarrow Zinnia				necessary to maintain control.  Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. Test on a few plants to determine varietal susceptibility.	
Boston Ivy Roses	Japanese Beetle	1 lb. (16 oz.)	As the Japanese Beetle begin to appear. Repeat applications at a minimum of 2 week intervals may be necessary.		

#### COMMERCIAL GREENHOUSE/SHADEHOUSE FLORAL AND FOLIAGE PLANT CROPS

**Restrictions:** This product is **not** for outdoor residential use on lawns, turf, home gardens, ornamentals, flowers, shrubs or trees. **Not for use in residential greenhouses/shadehouses**

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

Do not apply with low pressure handwand equipment.

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER 100 GALS.	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
Roses	Leafrollers	0.5 to 0.75 lb. (8 to 12 oz.)	As the leafrollers begin to appear. Use the higher amount when large larvae are present.	Apply the specified amount of TIDE ACEPHATE 97 SG in 100 gallons of water with a hydraulic sprayer as a full coverage spray. Use higher listed rates within the specified range for severe insect infestations. Zhejiang Tide CropScience Co., Ltd. does not recommend application to roses with open flowers.	Do not apply more than 0.75 lb. product/A/100 gallons of water. Do not apply at less than 14-day spray intervals.
Anthuriums Cacti Foliage Plants Orchids Poinsettia	Aphids	0.25 lb. (4 oz.)	As aphids begin to appear.	Apply the specified amount of TIDE ACEPHATE 97 SG in 100 gallons of water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage.	Do not apply more than 0.5 lb. product/A/100 gallons of water. Do not apply at less than 14-day spray intervals.
	Mealy bugs Thrips Whiteflies	0.5 lb. (8 oz.)	As the insects begin to appear. A repeat application at a minimum of 2 week interval may be necessary for control of mealy bugs and whiteflies.		

	Scales (Crawlers)	0.5 lb. (8 oz.)	As crawlers begin to appear. Repeat applications at a minimum of 2 week or more interval may be necessary where there is continuous crawler production.	Phytotoxicity has occurred on the following plants: Bletchum gibbum, Cissus antarctica, Ficus triangularis, Fittonia verschaffeltii, Maranta leuconeura kerchoviana, Plectranthus lutes, Plectranthus australis, Polypodium aureus, Polystichum, Pteris ensiformis, Tolmiea menziesii. Before treating large plantings, spray only a few plants and observe for 2 weeks for varietal phytotoxicity. Application to poinsettias after bract formation may result in phytotoxicity on certain varieties.	
Anthuriums Cacti Foliage Plants Orchids Poinsettia (continued)	Sweetpotato /Silverleaf Whiteflies (except CA)	0.25 lb. (4 oz.) + TAME® 2.4EC 10.66 fl. oz. (0.2 lb. a.i.)	Apply when insects first appear. If a population is well established, make one application of the tank mix and follow 5 to 7 days later with TAME® alone at 16 fl. oz./100 gallons. See the TAME® label for instructions.	Apply the specified amount of TIDE ACEPHATE 97 SG plus TAME® 2.4 EC. Spray as a tank mix at a volume necessary to obtain good coverage. Follow the TAME® label for specific instructions on the alternation of TAME® plus TIDE ACEPHATE 97 SG and TAME® alone and the rotation instruction to avoid potential resistance.	Do not apply more than 0.25 lb. product/A/100 gallons of water. Do not apply at less than 14-day spray intervals.
Carnations Chrysanthemums Roses	Aphids Thrips	0.5 lb. (8 oz.)	As aphids begin to appear. As thrips begin to appear or at the tight flower bud stage. Repeat applications may be necessary.	Apply the specified amount of TIDE ACEPHATE 97 SG in 100 gallons of water with a hydraulic sprayer as a full coverage spray. Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gent, Iceberg Pride, Showoff, Statesman, Tally-Ho, Westward-Ho & Wild Honey. Before treating large Chrysanthemum plantings, spray only a	Do not apply more often than once every 14 days. Do not apply more than 0.5 lb. product/A/100 gallons of water.

				few plants and observe two weeks for varietal phytotoxicity. Zhejiang Tide CropScience Co., Ltd. does not recommend application to chrysanthemums and roses with open flowers.	
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**COMMERCIAL TURFGRASS: GOLF COURSES AND SOD FARMS ONLY**

**Restrictions:** This product is **not** for outdoor residential use on lawns, turf, home gardens, ornamentals, flowers, shrubs or trees. Do not allow livestock to graze treated areas. Do not feed treated grass to livestock. Aerial applications to turf are prohibited.

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER 1000 SQ. FT.	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
Turfgrass (Golf courses and Sod Farms only)	Fall Armyworm Yellow Striped Armyworm Southern Armyworm	0.4 to 0.9 oz. (1 to 2.5 lbs. per acre)	As the insects appear. A repeat application at a minimum of 14-day interval may be necessary.	Apply the specified amount of TIDE ACEPHATE 97 SG per 1,000 sq. ft. Use a minimum of 5 gallons of water per 1,000 sq. ft. to obtain good coverage. Use higher listed rates within the specified range for severe insect infestations.	Do not apply more than 3.09 lbs. product/A for Sod Farms and 4.12 lbs. product/A for Golf Courses. For Sod Farms, allow at least 3 days to elapse between final application and harvesting sod. Do not apply aerially.
	Cutworms	Golf course: 0.9 to 1.5 oz. (2.5 to 4.12 lbs. per acre)  Sod farms: 0.9 to 1.1 oz. (2.5 to 3.09 lbs. per acre)			
	Chinch bugs	Golf course: 0.9 to 1.5 oz. (2.5 to 4.12 lbs. per acre)  Sod farms: 0.9 to 1.1 oz. (2.5 to 3.09 lbs. per acre)	Apply as needed for adult population knockdown. Apply at a minimum of 10- to 14-day intervals as needed.		
	Leafhopper	0.75 oz. (2 lbs. per acre)	As the leafhoppers begin to appear. A repeat application at a minimum of 7-day interval may be necessary.		
	Mole Crickets (except CA) Spittlebug (except CA)	Golf courses: 0.8 to 1.4 oz. (2.2 to 4 lbs. per acre)  Sod farms: 0.8 to 1.1 oz. (2.2 to 3.09 lbs. per acre)	As mole crickets begin to appear. For knockdown of existing populations, more than one application may be required throughout the growing season. For heavy infestations, use the higher dosage rates.		

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER 1000 SQ. FT.	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
			Apply at a minimum of 7- to 14-day intervals as needed.	Use higher listed rates within the specified range for severe insect infestations. The use of a lemon fragrance substance in the spray mix may enhance control by acting as a flushing agent and thus provide increased mole cricket contact with the acephate. The following lemon-scented products have been shown to be effective flushing agents: Lemon Joy, Lemon Palmolive, and Mighty Products manufactured-base pure lemon fragrance. The use rate for these lemon-scented products is 2 teaspoons per gallon of water for small total mix volume or 6 fl. oz. per 50 gallons of water for large mix volume.	
Turfgrass (Golf courses and Sod Farms only)	Sod Webworm ( <i>Crambus</i> spp.)	0.4 to 0.8 oz. (1 to 2.2 lbs. per acre)	As sod webworms begin to appear use the higher amount when quick knockdown is needed or with heavy infestations. Repeat application may be needed. Apply at a minimum of 7- to 14-day intervals as needed.	Apply the specified amount of TIDE ACEPHATE 97 SG per 1,000 sq. ft. Use 1 to 15 gallons of water per 1,000 sq. ft. to obtain good coverage. Use higher listed rates within the specified range for severe insect infestations.	Do not apply more than 3.09 lbs. product/A for Sod Farms and 4.12 lbs. product/A for Golf Courses. For Sod Farms, allow at least 3 days to elapse between final application and harvesting sod. Do not apply aerially.
Turfgrass (Golf courses and Sod Farms only)	Greenbug ( <i>Shizaphis graminum</i> ) Grasshoppers	0.4 oz. (1 lb. per acre)	Apply when insects or their damage first appear. Apply at a minimum of 7- to 14-day intervals as needed.	Apply the specified amount of TIDE ACEPHATE 97 SG Use 4 gallons of water per 1,000 sq. ft. to obtain good coverage. Do not mow turfgrass for at least 24 hours after application.	
	Black Turfgrass Ataenius (except CA)	Golf courses: 0.9 to 1.4 oz. (2.5 to 4 lbs. per acre) Sod Farms:	Apply when insects or their damage first appear.	Apply the specified amount of TIDE ACEPHATE 97 SG per 1,000 sq. ft. Use a	

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG PER 1000 SQ. FT.	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
		0.9 to 1.1 oz. (2.5 to 3.09 lbs. per acre)	Apply at a minimum of 7- to 14-day intervals as needed.	minimum of 5 gallons of water per 1,000 sq. ft. Irrigate lightly after application (not more than 1/2 inch).  Use higher listed rates within the specified range for severe insect infestations.	
Dichondra (Golf courses and Sod Farms only)	Cutworm Flea Beetle Southern Armyworm Yellow Striped Armyworm	Golf courses: 0.8 to 1.4 oz. (2.2 to 4 lbs. per acre) Sod Farms: 0.8 to 1.1 oz. (2.2 to 3.09 lbs. per acre)	Apply when insects first appear. Repeat at a minimum of 14-day intervals as necessary.	Apply the specified amount of TIDE ACEPHATE 97 SG per 1,000 sq. ft. Use a minimum of 15 gallons of water per 1,000 sq. ft. to obtain good coverage.  Use higher listed rates within the specified range for severe insect infestations.	

#### MOUND TREATMENT OF FIRE ANTS AND HARVESTER ANTS IN TURFGRASS

**Restrictions:** This product is **not** for outdoor residential use on lawns, turf, home gardens, ornamentals, flowers, shrubs or trees. Do not allow livestock to graze treated areas. Do not feed treated grass to livestock.

PLANTS	INSECTS	AMOUNT OF TIDE ACEPHATE 97 SG	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS
Turfgrass and Non-Crop Areas	Imported Fire Ants and Harvester Ants	<b>Mound Treatment-Drench Method:</b> Mix 0.75 oz. in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	Apply when insects first appear.	Apply the specified amount of TIDE ACEPHATE 97 SG as directed. Grass in treated areas may be injured.  For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged dry and hot conditions may be ineffective due to the location of the ants deep within the nest.	Do not treat mound more than once per season.  For Sod Farms: Allow at least 3 days to elapse between last application and harvesting.

#### OUTDOOR AND PERIMETER SPRAY EXCLUDING RESIDENTIAL AREAS

**Restrictions:** This product is **not** for outdoor residential use on lawns, turf, home gardens, ornamentals, flowers, shrubs or trees.

LOCATION	INSECTS	AMOUNT TIDE ACEPHATE 97 SG PER GALLON	APPLICATION TIMING	APPLICATION INSTRUCTIONS	RESTRICTIONS

Outdoor and Perimeter Area (excluding residential turf)	Wasps	1.2 oz.	Treat early or late in the day, as wasps are generally less active during these times.	Apply the specified amount of TIDE ACEPHATE 97 SG per each gallon of water used.  Apply as a spot treatment to the nest, nest entrance and surrounding areas where the wasps alight.	The use of low pressure handwand equipment for perimeter or wasp treatments is prohibited.
	Ants (excluding fire, harvester, carpenter and pharaoh ants) Crickets Earwigs Pillbugs	1.2 oz.	As the insects appear.	Apply the specified amount of TIDE ACEPHATE 97 SG per each gallon of water used.  Apply to a band of soil 6 to 10 feet adjacent to the structure and to a height of 2 to 3 feet on the foundation where pests may be active or may find entrance. Also apply as a residual spray or with a paint brush to surfaces of buildings, window frames, shutters, entryways, screens, eaves, patios, garages, carports, around garbage areas where these pests congregate.	

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container in a cool, dry place. Protect from excessive heat. Do not put concentrate or dilute product into food or drink containers.

**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program.

**CONTAINER HANDLING:**

Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Dispose of bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### LIMITED WARRANTY AND DISCLAIMER

Zhejiang Tide CropScience Co., Ltd. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the printed label directions, subject to the inherent risks set forth below.

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond control of the manufacturer, no guarantee, expressed or implied,

is made as to the effects of such use or the results to be obtained if not used in strict accordance with printed label directions and established safe practice. To the fullest extent permitted by law, buyer's exclusive remedy and manufacturer's or seller's exclusive liability for any and all claims, losses, damages or injuries resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort or otherwise shall be limited, at the manufacturer's option to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed.

#### **Inherent Risks of Use**

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Zhejiang Tide CropScience Co., Ltd. or the seller. All such risks shall be assumed by buyer.

#### **Terms and Conditions of Use**

If terms of the Limited Warranty & Disclaimer and Inherent Risks of Use are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer and Inherent Risks of Use.

[EPA approval date]

## Tide Acephate 97 SG Insecticide

**ACTIVE INGREDIENT:**

Acephate(O,S-Dimethylacetylphosphoramidothioate): ..... 97.0%

**OTHER INGREDIENTS:** ..... 3.0%

**TOTAL:** ..... 100.0%

### KEEP OUT OF REACH OF CHILDREN CAUTION

<b>FIRST AID</b>	
Contains an organophosphate that inhibits cholinesterase.	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN</b>	
Acephate is a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.	

**EPA Reg. No. 80697-  
EPA Est. No.**

**Manufactured for:**  
Zhejiang Tide CropScience Co., Ltd.  
21 Hubble  
Irvine, CA 92618

**Net Weight: xx lbs**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed.

**PERSONAL PROTECTIVE EQUIPMENT**

Some materials that are chemical-resistant to this product include butyl rubber, nitrile rubber, or neoprene. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

**Applicators, mixers, loaders and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves for all mixers and loader and for applicators using hand-held application equipment
- Shoes and socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Requirements:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds.

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Eliminations System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers or protected supervisors may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Exception: If the seed is treated with the product and the treated seed is soil injected (drilled) or soil incorporated, the Worker Protection Standard under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks

## TREATED COTTONSEED

This product is intended to treat cottonseeds on the farm, to package and store treated seed for later use, or to treat cottonseed at a commercial seed treatment facility. TIDE ACEPHATE 97 SG contains a water-soluble systemic insecticide which helps to reduce injury to cotton seedlings by several insects.

## APPLICATION INSTRUCTIONS

TIDE ACEPHATE 97 SG can be mixed in the slurry tank with most of the fungicide seed treatments in common use. It also can be applied as a separate treatment using enough water to give adequate coverage of the seed.

PESTS CONTROLLED	AMOUNT OF TIDE ACEPHATE 97 SG PER 100 LBS COTTONSEED	EFFICACY
Cotton Aphids Thrips (Including Western Flower Thrips)	0.28 – 0.4 lb. (4.5 – 6.4 oz.)  The lower rate is not approved for use in California	Gives effective reduction of thrips and cotton aphids for up to three weeks after planting.
Black (Greasy) Cutworm	0.28 – 0.4 lb. (4.5 – 6.4 oz.)  The lower rate is not approved for use in California	Gives effective reduction of Black (Greasy) Cutworm from planting through the 3 <sup>rd</sup> to 4 <sup>th</sup> leaf stage of development. When planting into fields where large cutworms are present (5 <sup>th</sup> instar and larger), economic damage may occur.

## TANK MIXES

- When tank mixing Tide Acephate 97 SG with other products, read the entire label of each product being added to the mix and follow the most restrictive guidelines applicable to your situation.
- The user, applicator and/or application advisor accepts full responsibility for using this product with any other product or application method not expressly authorized by this label.

## RESTRICTIONS

- Do not use treated seed for food or feed purposes or process for oil. Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice.

- Do not apply more than 4.125 lbs. product/A (4 lbs. a.i./A) per season. This includes the use of TIDE ACEPHATE 97 SG in commercial seed-treatment, in-furrow, and foliar applications.
- Store treated seeds away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants, and chemical-resistant gloves when handling treated seed.
- Dispose of seed packaging in accordance with local requirements.
- Exposed treated seed may be hazardous to birds. Dispose of all excess treated by seed by burial away from bodies of water. Cover or incorporate spilled treated seeds.
- Treated seeds must be planted into the soil at the depth of 1 inch or greater.
- When using formulations that do not contain dye, compliance with 21 CFR Chapter 1, Section 2.5 requires that all seed treated with a pesticide must be colored to distinguish from, and prevent inadvertent use as, food for man or feed for animals.

## SEED BAG LABELING REQUIREMENTS

The Federal Seed Act requires that bags containing treated seed be labeled with the following statements:

- This seed has been treated with (insert name of active ingredient of pesticide).
- **DO NOT** use for food, feed or oil purposes.

The US Environmental Protection Agency requires the following statements on bags containing seeds treated with Tide Acephate 97:

- All bags containing treated seed must be labeled or tagged with the following information: "This seed has been treated with xx lbs TIDE ACEPHATE 97 SG, which contains x mg active ingredient (ai) per seed." [\* to be filled in]
- Do not apply more than 4.125 lbs. product/A (4 lbs. a.i./A) per season. This includes the use of TIDE ACEPHATE 97 SG from seed-treatment, in-furrow, and foliar applications.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice.
- Store treated seeds away from feeds and other foodstuffs.
- Wear long-sleeved shirt, long pants, and chemical-resistant gloves when handling treated seed.
- Dispose of seed packaging in accordance with local requirements.
- Exposed treated seed may be hazardous to birds. Dispose of all excess treated by seed by burial away from bodies of water. Cover or incorporate spilled treated seeds.
- Treated seeds must be planted into the soil at the depth of 1 inch or greater.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container in a cool, dry place. Protect from excessive heat. Do not put concentrate or dilute product into food or drink containers.

**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program.

**CONTAINER HANDLING:**

Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Dispose of bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## **LIMITED WARRANTY AND DISCLAIMER**

Zhejiang Tide CropScience Co., Ltd. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the printed label directions, subject to the inherent risks set forth below.

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such use or the results to be obtained if not used in strict accordance with printed label directions. To the fullest extent permitted by law, buyer's exclusive remedy and manufacturer's or seller's exclusive liability for any and all claims, losses, damages or injuries resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort or otherwise shall be limited, at the manufacturer's option to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed.

### **Inherent Risks of Use**

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Zhejiang Tide CropScience Co., Ltd. or the seller. All such risks shall be assumed by buyer.

### **Terms and Conditions of Use**

If terms of the Limited Warranty & Disclaimer and Inherent Risks of Use are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent consistent with applicable law, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer and Inherent Risks of Use.

[EPA approval date]